

Features

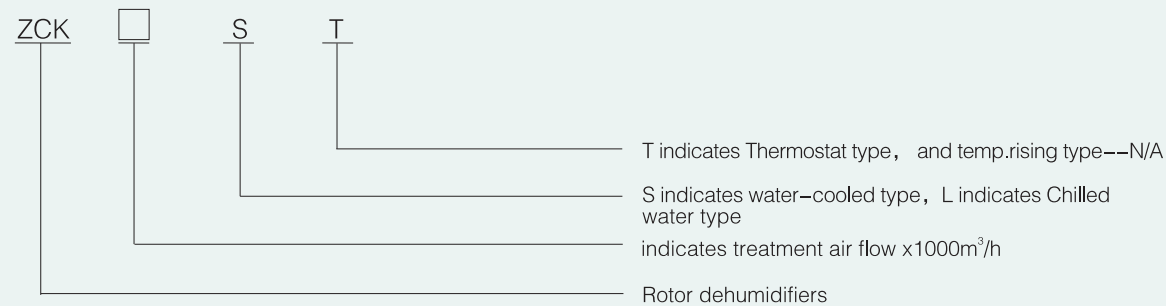
All models of rotary dehumidifiers apply Profute Composite Runner from Sweden. Silicone runner has an active silicone coating rate of 82%, so it has outstanding capability of moisture absorption and meets dehumidification demands from most of applying fields. Molecular-sieve runner has molecular sieve of 37% and active silicone of 45%. It has good capability of dehumidification in low and high temperatures, as well as alkali environment. It can be applied in dehumidification fields of super low dewpoint.

The product has outstanding fireproof capability. The media of Profute Composite Runner from Sweden has outstanding fireproof capability and its burning index and smoke index are 0, which was inspected by ASTME according to E-84 Standard.

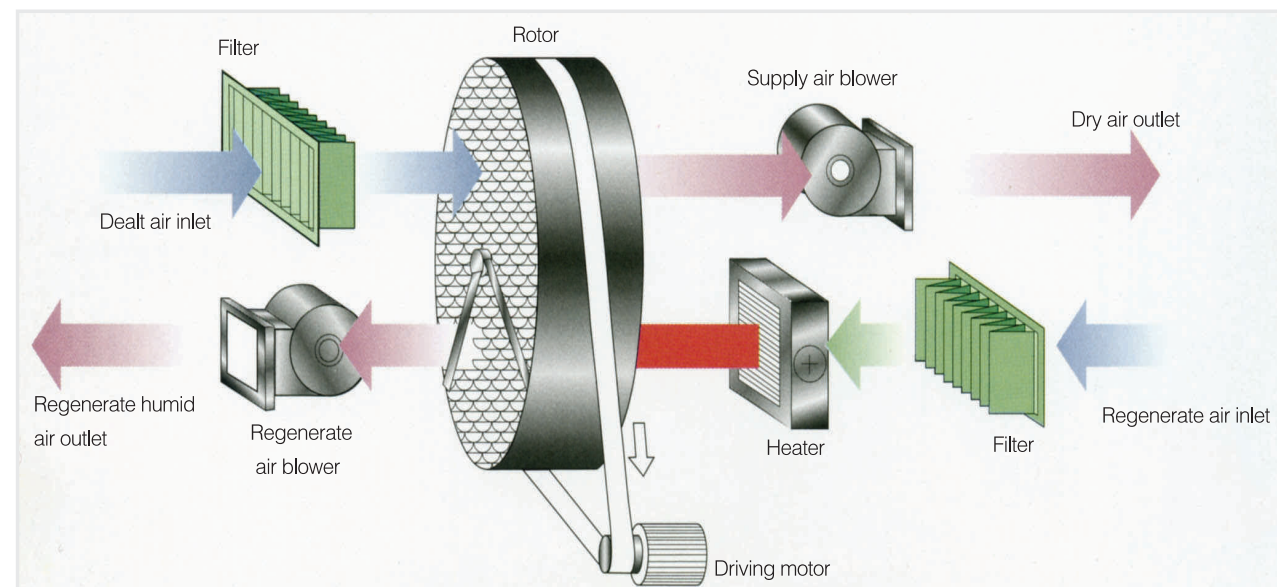
Headpower Rotary Dehumidifiers has complete measures and models. Aparting from standard series, we also developed series of air cooled thermostat FT, water cooled thermostat ST and chilled water thermostat LT, in order to meet demands from various applying conditions and air parameters.



Model number nomenclature



Sketch of operational principle



Standard temp.rising type rotor dehumidifier

Item	Model No	ZCK015	ZCK02	ZCK05	ZCK06	ZCK08	ZCK10	ZCK13	ZCK15	ZCK20
Treatment air	Air Flow (m³/h)	1500	2000	4000	6000	8000	10000	13000	15000	20000
	ESP (pa)	400	400	400	400	500	500	500	600	600
	Fan Power (KW)	1.5	1.5	3	5.5	7.5	7.5	11	11	15
Regenerative air	Air Flow (m³/h)	500	750	1350	2000	2700	3500	4200	5000	6700
	ESP (pa)	300	300	200	200	400	300	300	400	300
	Fan Power (KW)	1.1	1.5	1.5	1.5	3	3	3	4	4
Regenerative heating	Electrode Power (KW)	15	24	48	68	92	114	143	171	228
	Steam consumption flow(Kg/h)	25	41	82	116	155	194	243	292	389
The rotary dehumidifier	Dehumidification Capacity(Kg/h)	9	14	28	42	56	70	88	106	143
Weight	Total Weight (Kg)	500	500	600	700	800	1000	1100	1200	1400
	LA(mm)	4320	4320	4320	4600	5080	5080	5480	5760	5900
	WB(mm)	850	850	1010	1230	1350	1480	1670	1890	2240
Unit Dimension	HD(mm)	930	930	1090	1310	1450	1580	1770	1990	2340

Chilled water thermostat rotor dehumidifier

Item	Model No	ZCK015LT	ZCK02LT	ZCK05LT	ZCK06LT	ZCK08LT	ZCK10LT	ZCK13LT	ZCK15LT	ZCK20LT
Treatment air	Air Flow (m³/h)	1500	2000	4000	6000	8000	10000	13000	15000	20000
	ESP (pa)	400	400	400	500	500	500	500	600	600
	Fan Power (KW)	1.5	1.5	3	5.5	7.5	7.5	11	11	15
Regenerative air	Air Flow (m³/h)	500	750	1350	2000	2700	3500	4200	5000	6700
	ESP (pa)	300	300	200	200	400	300	300	400	300
	Fan Power (KW)	1.1	1.5	1.5	1.5	3	3	3	4	4
Regenerative heating	Electrode Power (KW)	15	24	48	68	92	114	143	171	228
	Steam consumption flow(Kg/h)	25	41	82	116	155	194	243	292	389
The rotary dehumidifier	Dehumidification Capacity(Kg/h)	9	14	28	42	56	70	88	106	143
Unit Dimension	Rotor Section	500	500	600	700	800	1000	1100	1200	1400
	Part of the front cold filter	470	470	610	710	850	1000	1090	1190	1330
	Part of the behin cooler	570	470	760	860	950	1150	1240	1340	1530
	The length of runner A3	1230	1230	1230	160	1680	1680	1680	1760	1760
	LA(mm)	4320	4320	4320	4600	5080	5080	5480	5760	5900
	WB(mm)	850	850	1010	1230	1350	1480	1670	1890	2240
	HD(mm)	930	930	1090	1310	1450	1580	1770	1990	2340
The amount of chilled water (t/h)		10	13	21	23	35	40	50	58	62

Note: 1. The rated data in the form is based on temperature of 20°C and relative humidity of 70% in treatment air; temperature of 120°C and absolute moisture content of 23g/kg in regenerated air.inlet cooled water temperature 30°C.
 2. Steam consumption is calculated according to 2106.9kj/kg, 500kpa;
 3. The height of runner section excludes sizes of the external air regenerator and regenerating air heater;
 4. Power supply should be 3N-50HZ 380/220V (three-phase four-wire system of 380V with a grounding wire)

Air-cooled type thermostat dehumidifiers

Item	Model No	ZCK015FT	ZCK02FT	ZCK05FT	ZCK06FT	ZCK08FT	ZCK10FT	ZCK13FT	ZCK15FT	ZCK20FT
Treatment air	Air Flow (m ³ /h)	1500	2000	4000	5000	8000	10000	13000	15000	20000
	ESP(pa)	400	400	400	400	500	500	500	600	600
	Fan Power (KW)	1.5	3	1.5	5.5	7.5	7.5	11	11	15
Regenerative air	Air Flow (m ³ /h)	500	750	1350	2000	2700	3500	4200	5000	6700
	ESP(pa)	300	300	200	200	400	300	300	400	300
	Fan Power (KW)	1.1	1.5	1.5	1.5	3	3	3	4	4
Regenerative heating	Electrode Power(KW)	15	24	48	68	92	114	143	171	228
	Steam consumption flow(Kg/h)	25	41	82	115	155	194	243	292	389
The rotary dehumidifier	Dehumidification Capacity(Kg/h)	9	14	28	42	56	70	88	106	143
Unit Dimension	Rotor Section	500	500	600	700	800	1000	1100	1200	1400
	Part of the front cold filter	500	500	650	750	900	1050	1150	1250	1400
	Part of the behind cooler	600	600	800	900	1000	1200	1300	1400	1600
	The length of runner A3	1230	1230	1230	160	1680	1680	1680	1760	1760
	LA(mm)	4320	4320	4320	4600	5080	5080	5480	5760	5900
	WB(mm)	850	850	1010	1230	1350	1480	1670	1890	2240
	HD(mm)	930	930	1090	1310	1450	1580	1770	1990	2340
Model of Outdoor Machine X Amount		SW-6	SW-10	SW-25	SW-36	SW-50	SW-60	SW-80	SW-100	SW-120

Water-cooled type thermostat dehumidifiers

Item	Model No	ZCK015ST	ZCK02ST	ZCK04ST	ZCK06ST	ZCK08ST	ZCK10ST	ZCK13ST	ZCK15ST	ZCK20ST
Treatment air	Air Flow (m ³ /h)	1500	2000	4000	6000	8000	10000	13000	15000	20000
	ESP (pa)	400	400	400	400	500	500	500	600	600
	Fan Power (KW)	1.5	1.5	3	5.5	7.5	7.5	11	11	15
Regenerative air	Air Flow (m ³ /h)	500	750	1350	2000	2700	3500	4200	5000	6700
	ESP (pa)	300	300	200	200	400	300	300	400	300
	Fan Power (KW)	1.1	1.5	1.5	1.5	3	3	3	4	4
Regenerative heating	Electrode Power (KW)	15	24	48	68	92	114	143	171	228
	Steam consumption flow(Kg/h)	25	41	82	116	155	194	243	292	389
The rotary dehumidifier	Dehumidification Capacity(Kg/h)	9	14	28	42	56	70	88	106	143
Unit Dimension	Rotor Section	500	500	600	700	800	1000	1100	1200	1400
	Part of the front cold filter	500	500	650	750	900	1050	1150	1250	1400
	Part of the behind cooler	600	600	800	900	1000	1200	1300	1400	1600
	The length of runner A3	1230	1230	1230	1600	1680	1680	1680	1760	1760
	LA(mm)	4320	4320	4320	4600	5080	5080	5480	5760	5900
	WB(mm)	850	850	1010	1230	1350	1480	1670	1890	2240
	HD(mm)	930	930	1090	1310	1450	1580	1770	1990	2340
The amount of chilled water (t/h)		10	13	21	28	35	40	50	58	62

Note: 1. The rated data in the form is based on temperature of 20°C and relative humidity of 70% in treatment air; temperature of 120°C and absolute moisture content of 23g/kg in regenerated air, inlet cooled water temperature 30°C.
 2. Steam consumption is calculated according to 2106.9kJ/kg, 500kpa;
 3. The height of runner section excludes sizes of the external air regenerator and regenerating air heater;
 4. Power supply should be 3N-50HZ 380/220V (three-phase four-wire system of 380V with a grounding wire)

Features

◎ **Application Coverage**

1. Medium and big switch and mobile machine rooms
2. Computer rooms and IDC
3. High-tech environment and labs
4. Industrial control rooms and sophisticated processing equipment
5. Standard inspection rooms and calibration centers
6. UPS and battery rooms
7. Biochemical incubators
8. Hospitals and examination rooms

◎ **High Adaptability**

- Various energy-saving designs
- Various air distribution patterns to meet demands from different airflow organizations
- Various cooling patterns, including air cooling, water cooling, glycol cooling and cold water etc., benefiting adaptability of on-the-spot conditions
- Adapt to different cooling media such as R22, R407C and R410a
- Various supervision patterns
- - Air cooling condenser offers devices for different temperatures and environments (including start in low temperature).

◎ **High Reliability, High Flexibility, Life Cycle Cost**

1. complete series of products, including models of air cooling, glycol cooling, water cooling and cold water
2. wide refrigerating range, 5kW-100kW for air cooling, water cooling, glycol cooling machines, and 12-151kW for cold water machines

◎ **Advantages and Characteristics**

1. High Reliability, High Flexibility, Life Cycle Low Cost
2. removable structure for transportation, 100% all front maintenance, room space saving
3. High-efficient scroll compressor, suitable for environment-friendly refrigerant
4. tension adjustment fan, meeting demands from different ext. static pressure
5. large V-shaped evaporator, quick dehumidification design, ensuring energy saving
6. unique high-efficient electrode humidification system, quick humidification speed, adapt to bad water quality, low maintenance
7. ultra big screen and all-Chinese character monitor
8. strong united control and telecommunicational function
9. brand new air cooling speed regulating condenser, low noise



Model type nomenclature

